

Exhibit V



UNITED STATES
PATENT AND TRADEMARK OFFICE

Assignment abstract of title for Application 13737748

Invention title/Inventor	Patent	Publication	Application	PCT	International registration
Security Techniques	9198042	20130145422	13737748		
For Device Assisted Services	Nov 24, 2015	Jun 6, 2013	Jan 9, 2013		
Gregory G. Raleigh					

Assignments (2 total)

Assignment 2				
Reel/frame	Execution date	Date recorded	Properties	Pages
041248/0777	Dec 29, 2016	Jan 4, 2017	56	6
Conveyance				
MERGER AND CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).				
Assignors		Correspondent		
HEADWATER PARTNERS I LLC		ANN TAYLOR		
HEADWATER MANAGEMENT LLC		1011 PRUITT PLACE		
		TYLER, TX 75703		
Assignee				
HEADWATER RESEARCH LLC				
1011 PRUITT PLACE				
TYLER, TEXAS 75703				

Assignment 1				
Reel/frame	Execution date	Date recorded	Properties	Pages
029617/0601	Jan 11, 2013	Jan 11, 2013	1	2
Conveyance				
ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).				
Assignors		Correspondent		
RALEIGH, GREGORY G.		ANN TAYLOR		
		350 MARINE PARKWAY, SUITE 300		
		REDWOOD SHORES, CA 94065		
Assignee				
HEADWATER PARTNERS I LLC				
350 MARINE PARKWAY, SUITE 300				
REDWOOD SHORES, CALIFORNIA 94065				

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4210295

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	MERGER AND CHANGE OF NAME	
EFFECTIVE DATE:	12/29/2016	
CONVEYING PARTY DATA		
	Name	Execution Date
	HEADWATER PARTNERS I LLC	12/29/2016
NEWLY MERGED ENTITY DATA		
	Name	Execution Date
	HEADWATER MANAGEMENT LLC	12/29/2016
MERGED ENTITY'S NEW NAME (RECEIVING PARTY)		
Name:	HEADWATER RESEARCH LLC	
Street Address:	1011 PRUITT PLACE	
City:	TYLER	
State/Country:	TEXAS	
Postal Code:	75703	
PROPERTY NUMBERS Total: 56		
Property Type	Number	
Patent Number:	8839387	
Patent Number:	8839388	
Patent Number:	8868455	
Patent Number:	8886162	
Patent Number:	8893009	
Patent Number:	8897743	
Patent Number:	8897744	
Patent Number:	8898079	
Patent Number:	8898293	
Patent Number:	8903452	
Patent Number:	8924469	
Patent Number:	8924543	
Patent Number:	8924549	
Patent Number:	8948025	
Patent Number:	9014026	

Property Type	Number
Patent Number:	9026079
Patent Number:	9037127
Patent Number:	9094311
Patent Number:	9137701
Patent Number:	9137739
Patent Number:	9143976
Patent Number:	9154428
Patent Number:	9173104
Patent Number:	9179308
Patent Number:	9179315
Patent Number:	9179316
Patent Number:	9179359
Patent Number:	9198042
Patent Number:	9198074
Patent Number:	9198075
Patent Number:	9198076
Patent Number:	9198117
Patent Number:	9204282
Patent Number:	9204374
Patent Number:	9215159
Patent Number:	9215613
Patent Number:	9220027
Patent Number:	9225797
Patent Number:	9232403
Patent Number:	9247450
Patent Number:	9253663
Patent Number:	9258735
Patent Number:	9270559
Patent Number:	9271184
Patent Number:	9277433
Patent Number:	9277445
Patent Number:	9319913
Patent Number:	9351193
Patent Number:	9386121
Patent Number:	9386165
Patent Number:	9392462
Patent Number:	9491199
Patent Number:	9491564

Property Type	Number
Patent Number:	9521578
Patent Number:	9532161
Patent Number:	9532261

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 903-201-6211

Email: patent@headwaterllc.com

Correspondent Name: ANN TAYLOR

Address Line 1: 1011 PRUITT PLACE

Address Line 4: TYLER, TEXAS 75703

NAME OF SUBMITTER:	ANN TAYLOR
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SIGNATURE:	/Ann Taylor/
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DATE SIGNED:	01/04/2017
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Total Attachments: 3

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source=Certificate_Merger#page3.tif

Delaware

The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF
DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT
COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"HEADWATER PARTNERS I LLC", A DELAWARE LIMITED LIABILITY
COMPANY,

WITH AND INTO "HEADWATER MANAGEMENT LLC" UNDER THE NAME OF
"HEADWATER RESEARCH LLC", A LIMITED LIABILITY COMPANY ORGANIZED
AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS
RECEIVED AND FILED IN THIS OFFICE ON THE TWENTY-NINTH DAY OF
DECEMBER, A.D. 2016, AT 3:02 O`CLOCK P.M.



A handwritten signature in black ink, appearing to read "JB", is written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed in a small font.

4966025 8100M
SR# 20167326785

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 203606635
Date: 12-29-16

PATENT
REEL: 041248 FRAME: 0780

State of Delaware
Secretary of State
Division of Corporations
Delivered 03:02 PM 12/29/2016
FILED 03:02 PM 12/29/2016
SR 20167326785 - File Number 4966025

CERTIFICATE OF MERGER

MERGING

**HEADWATER PARTNERS I LLC
A DELAWARE LIMITED LIABILITY COMPANY**

WITH AND INTO

**HEADWATER MANAGEMENT LLC
A DELAWARE LIMITED LIABILITY COMPANY**

Pursuant to Section 18-209 of the Delaware Limited Liability Company Act

Headwater Management LLC, a Delaware limited liability company (the “**LLC**”), does hereby certify as follows:

FIRST: The LLC is a limited liability company duly formed and existing under the laws of the State of Delaware and Headwater Partners I LLC (the “**Company**”) is a limited liability company duly formed and existing under the laws of the State of Delaware.

SECOND: The Agreement and Plan of Merger (the “**Merger Agreement**”), dated as of December 29, 2016, by and among the Company and the LLC, setting forth the terms and conditions of the merger of the Company with and into the LLC (the “**Merger**”), has been approved, adopted, certified, executed and acknowledged by the LLC and the Company in accordance with Section 18-209 of the Delaware Limited Liability Company Act.

THIRD: The LLC shall be the surviving entity of the Merger (the “**Surviving LLC**”) and the name of the Surviving LLC shall be changed to “Headwater Research LLC”.

FOURTH: The executed Merger Agreement is on file at the principal place of business and office of the Surviving LLC at the following address: 1011 Pruitt Place, Tyler, Texas 75703.

FIFTH: A copy of the Merger Agreement will be furnished by the Surviving LLC, on request and without cost, to any member of the Company or the LLC.

SIXTH: The Merger shall be effective upon the filing of this Certificate of Merger with the Secretary of State of the State of Delaware.

* * *

IN WITNESS WHEREOF, Headwater Management LLC has caused this Certificate of Merger to be executed by an authorized person on December 29, 2016.

HEADWATER MANAGEMENT LLC

By: /s/ Greg Raleigh

Name: Greg Raleigh

Title: Manager

[Signature Page to Certificate of Merger]

502192854 01/11/2013

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Gregory G. Raleigh	01/11/2013
RECEIVING PARTY DATA	
Name:	Headwater Partners I LLC
Street Address:	350 Marine Parkway, Suite 300
City:	Redwood Shores
State/Country:	CALIFORNIA
Postal Code:	94065
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13737748
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	650-517-2791
Email:	ann.taylor@headwaterllc.com
Correspondent Name:	Ann Taylor
Address Line 1:	350 Marine Parkway, Suite 300
Address Line 4:	Redwood Shores, CALIFORNIA 94065
ATTORNEY DOCKET NUMBER:	RALEP025C1
NAME OF SUBMITTER:	Ann Taylor
Total Attachments: 1 source=P025C1Assignment#page1.tif	

CH \$40.00 13737748

502192854

PATENT
REEL: 029617 FRAME: 0601

ASSIGNMENT OF PATENT APPLICATION

Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set forth in the patent application entitled:

SECURITY TECHNIQUES FOR DEVICE ASSISTED SERVICES

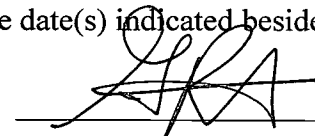
for which I (we) have executed an application for a United States Letters patent which was filed in the U.S. Patent and Trademark Office on January 9, 2013, and which bears the Application No. 13/737,748, and I (we) authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known;

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We the undersigned inventor(s) hereby:

1. Sell(s), assign(s) and transfer(s) to Headwater Partners I LLC, a Delaware Limited Liability Company having a principal place of business at 350 Marine Parkway, #300, Redwood City, CA 94065 (hereinafter referred to as "Assignee"), the entire right, title, and interest in any and all improvements and inventions disclosed in, application(s) (including foreign applications) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above-referenced application and/or in any provisional application to which the above-referenced application claims priority.
2. Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitute(s) or reissue(s) thereof to the Assignee.
3. Agree to execute all papers and documents and, entirely at the Assignee's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
4. Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives, and assigns.
5. Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the date(s) indicated beside my (our) signature(s).

Signature:



Gregory G. Raleigh

Date:

1/11/2013